NAVSEA
CORONA
Surface Warfare Center Division

GOVERNMENT - INDUSTRY
GIDEP
DATA EXCHANGE PROGRAM

# Government-Industry Data Exchange Program (GIDEP)

Presented by:
Jinhee Graebe
graebejr@corona.navy.mil

NAVSEA
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# Topics

- Overview
- Data
- Products and Services
- Special Projects

GOVERNMENT - INDUSTRY
GIDEP
DATA EXCHANGE PROGRAM

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# GIDEP

GOVERNMENT - INDUSTRY
GIDEP
DATA EXCHANGE PROGRAM

- A partnership between government and industry teamed to share technically valid, fact-based information
- Information is shared through active network of people and on-line database
- Mission: Foster technical information sharing among Government agencies and Industry partners to:
  - Increase systems' safety, reliability, and readiness
  - Reduce systems' development, production, and ownership costs

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# GIDEP Organization

GOVERNMENT - INDUSTRY GIDEP DATA EXCHANGE PROGRAM

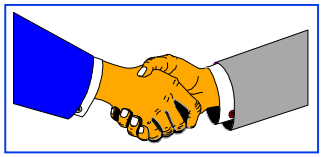
JOINT LOGISTICS COMMANDERS

PROGRAM MANAGER DASN(ACQ) WASH., D.C.

GOVERNMENT ADVISORY GROUP

OPERATIONS CENTER NSWC, CORONA

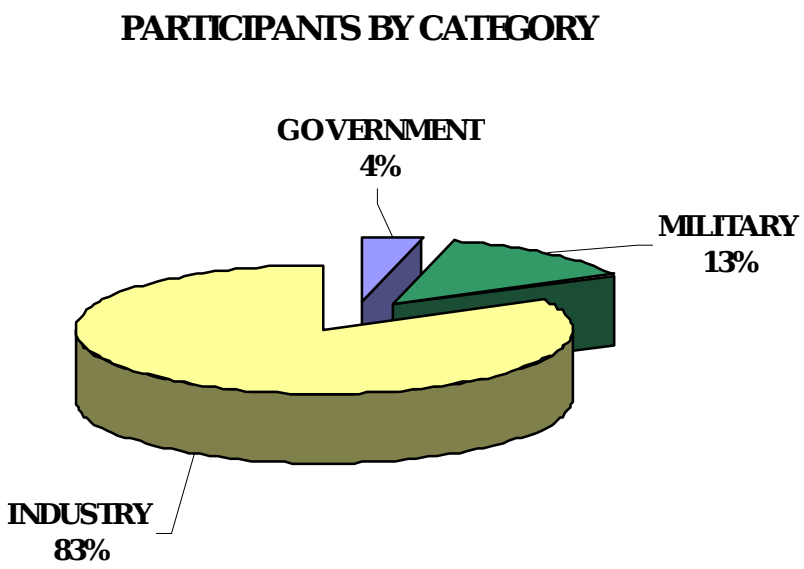
INDUSTRY ADVISORY GROUP



GOVERNMENT PARTICIPANTS 400 Representatives

INDUSTRY PARTICIPANTS 1200 Representatives

# GIDEP Participation




| | |
|---|---|
| • DCMA | 113 |
| • Army | 60 |
| • Air Force | 40 |
| • Navy | 49 |
| • NASA | 13 |
| • DOT | 13 |
| • DOD | 12 |
| • National Defence, Canada | 10 |
| • DLA | 7 |
| • Other government | 36 |
| • Industries | 1490 |

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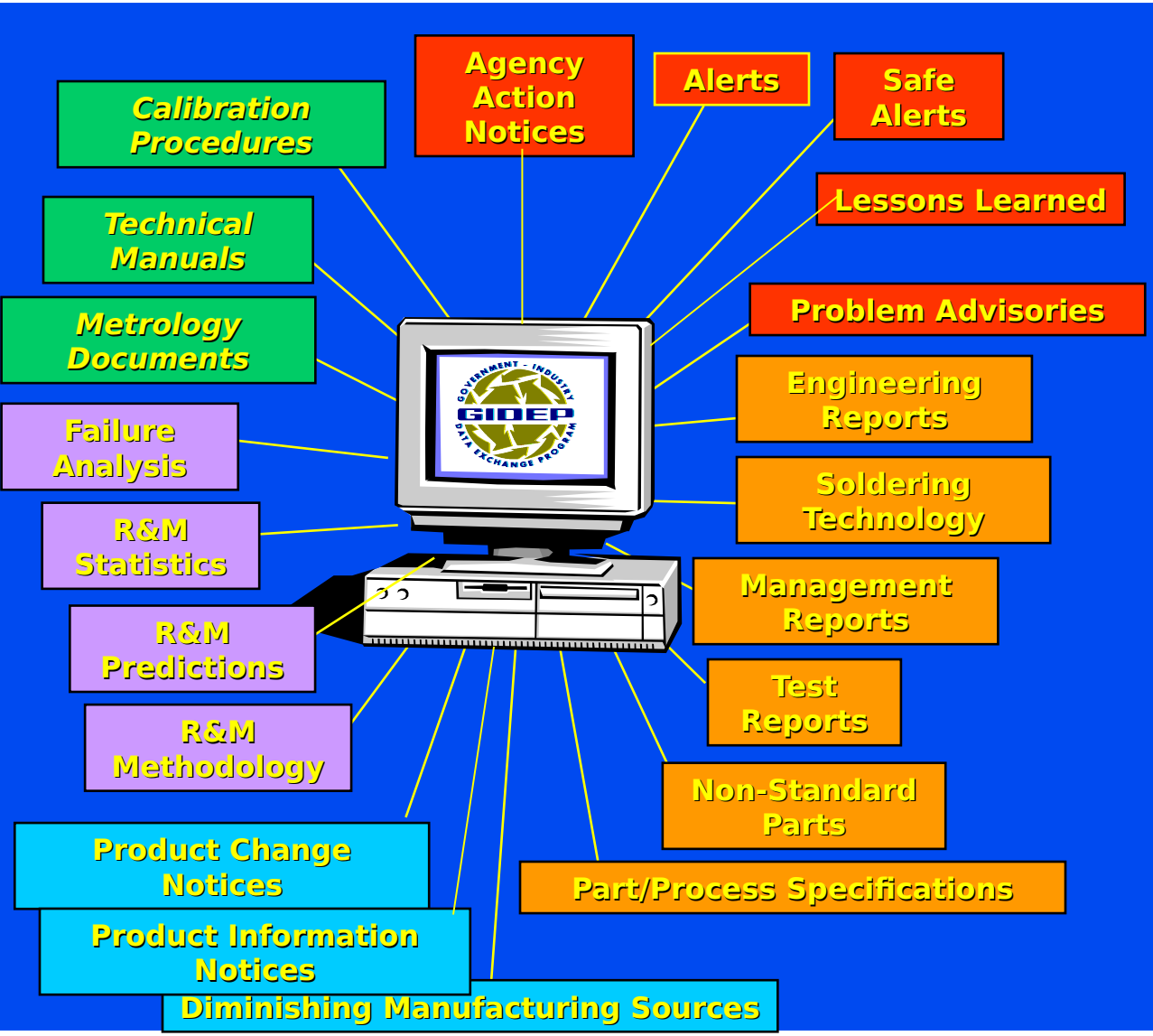
# GIDEP Database




| Data Type Category | Number of Documents |
|---|---|
| Failure Experience | 9,460 |
| Engineering | 67,522 |
| DMSMS | 4,926 |
| R&M | 4,366 |
| Metrology | 71,901 |

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# Failure Experience Data

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM

## ALERT

| | | |
|---|---|---|
| 1. TITLE *(Class, Function, Type, etc.)*<br>FILTER, EMI | | 2. DOCUMENT NUMBER<br>VV-A-01-06 |
| | | 3. DATE *(DD-MMM-YY)*<br>26 SEPTEMBER 2001 |
| 4. MANUFACTURER AND ADDRESS<br>RFI CORPORATION<br>100 PINE AIRE DRIVE<br>BAY SHORE, NEW YORK 11706 | 5. PART NUMBER<br>VARIOUS | 6. NATIONAL STOCK NUMBER<br>VARIOUS |
| | 7. SPECIFICATION<br>MIL-PRF-15733, MIL-PRF-28861 | 8. TYPE DESIGNATOR<br>NOT AVAILABLE |
| | 9. LOT DATE CODE START<br>0040 | 10. LOT DATE CODE END<br>0120 |
| 11. MANUFACTURER'S POINT OF CONTACT<br>RUSSELL HAGGERTY | 12. CAGE<br>13619 | 13. MANUFACTURER'S FAX<br>NOT AVAILABLE |
| 14. MFR. POC PHONE<br>(631) 231-6400 | 15. MANUFACTURER'S E-MAIL<br>NOT AVAILABLE | |
| 16. CROSS REFERENCE VENDOR<br>NOT AVAILABLE | 17. CROSS REFERENCE CAGE<br>NOT AVAILABLE | 18. CROSS REFERENCE PART<br>NOT AVAILABLE |

19. PROBLEM DESCRIPTION / DISCUSSION / EFFECT

A sampling of units shipped to DSCC have been found to fail the requirements of Gross Leak Check IAW MIL-STD-202F Method 112C Test Condition A. Investigations into this problem have determined the root cause for non-hermetic seal can be traced to the soldering operations that left microscopic voids in some closure areas.

# Failure Experience Data

**Title:** Filter, EMI

**Abstract:** A sampling of units shipped by RFI Corp to DSCC have been found to fail the requirements of gross leak check IAW MIL-STD-202F method 112C test condition A. Investigations into this problem have determined the root cause for non-hermetic seal can be traced to the soldering operations that left microscopic voids in some closure areas.

**Benefit:**

- The information prevented any non-conforming material from being assembled into units ready for assembly on the C-17 MFDS controller.
- Cost avoidance of $121k for C-17.
- Cost avoidance also reported for Delta IV, F-117, Sidewinder, and F-16 programs.

# Engineering Data



## Impact of Intermetallic Growth on the Mechanical Strength of Lead-Free BGA Assemblies

Patrick Roubaud, Ph.D., Grace Ng, Greg Henshall
Hewlett Packard
Palo Alto, CA

Swaminath Prasad, Flynn Carson
ChipPAC
Santa Clara, CA

Ronald Bulwith, Robert Herber
Alpha Metals
Jersey City, NJ

Sundar Kamath, Alexander Garcia
Sanmina
San Jose, CA

**Abstract**

The increasing industry awareness of lead-free activities has prompted users and suppliers to investigate lead-free solder systems in detail. The need to understand the intermetallic formation, structure, and its impact on the reliability of solder joints was the driving force behind this study. If intermetallics grow to sufficient thickness, fracture can occur during handling, shipping or service. This problem has been studied in detail for the tin-lead solder system, but it is not well understood for candidate lead-free solders.

Test boards populated with SMT lead-free components have been aged at 125°C and 150°C for intervals of time up to 32 days. The printed circuit boards had OSP surface finish. Four ball metallurgies (Sn-Ag, Sn-Cu, Sn-Ag-Cu and Sn-Ag-Cu-Bi) have been evaluated for the Plastic Ball Grid Array (PBGA) packages. The solder paste used in the SMT process was the Sn-Ag-Cu. The thickness of the intermetallics has been measured for each time interval and the activation energy for their growth has been computed. Additionally, these interconnections have been screened for catastrophic failure using 4-point bend tests, and compared with parts soldered with conventional Sn-Pb solder. The implications of these results for the reliability of lead-free interconnections are discussed.

# Engineering Data

**Title:** Impact of intermetallic growth on the mechanical strength of lead-free BGA assemblies

**Abstract:** The increasing industry awareness of lead-free activities has prompted users and suppliers to investigate lead-free solder systems in detail. If intermetallics grow to sufficient thickness, fracture can occur during handling, shipping or service. This problem has been studied in detail for the tin-lead solder system, but it is not well understood for candidate lead-free solders.

**Benefit:** This test report provided Boeing, in support of NASA, the justification to continue the use of solder containing lead in the Shuttle/Orbiter program. The $1M cost avoidance associated with the use of this report was based upon the cost of a launch delay.

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# DMSMS Data

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## DMSMS NOTICE

DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES

| | |
|---|---|
| 1. TITLE<br>AUSTIN SEMICONDUCTOR PRODUCT DISCONTINUANCE NOTIFICATION | 2. DOCUMENT NUMBER<br>QU3-D-02-02 |
| | 3. DATE *(Year, Month, Day)*<br>12 FEBRUARY 2002 |
| 4. MANUFACTURER NAME AND ADDRESS<br>AUSTIN SEMICONDUCTOR, INC.<br>8701 CROSS PARK DR. STE 105<br>AUSTIN, TX 78754 | 5. MANUFACTURER POINT OF CONTACT (NAME)<br>STEVE FULLER, MARKETING MANAGER |
| | 6. MANUFACTURER POINT OF CONTACT TELEPHONE<br>(512) 719-7267 |
| 7. CAGE CODE (H4)<br>0EU86 | 8. MANUFACTURER FINAL ORDER DATE<br>14 AUGUST 2002 |
| 9. MANUFACTURER PART NUMBER<br>SEE DOCUMENT | 10. BASE PART<br>NOT AVAILABLE |
| 11. DOCUMENT ORIGINATOR<br>STEVE FULLER, AUSTIN SEMICONDUCTOR, INC.<br>8701 CROSS PARK DR. STE 105<br>AUSTIN, TX 78754<br>E-MAIL: stevef@austinsemiconductor.com | 12. GOVERNMENT PART NUMBER<br>NOT AVAILABLE |
| | 13. SPECIFICATION NUMBER<br>NOT AVAILABLE |
| | 14. TYPE DESIGNATOR<br>NOT AVAILABLE |
| | 15. MODEL NUMBER<br>NOT AVAILABLE |
| | 16. NATIONAL STOCK NUMBER (NSN)<br>SEE DATABASE |
| | 17. DRAWING NUMBER<br>SEE DOCUMENT |

18. COMMENTS

AUSTIN SEMICONDUCTOR IS DISCONTINUING THE ATTACHED LIST OF PARTS. END-OF-LIFE BUYS WILL BE ACCEPTED UNTIL AND INCLUDING THE DATE OF AUGUST 14TH, 2002 .

# DMSMS

**Title:** Austin Semiconductor Product Discontinuance Notification

**Abstract:** Austin Semiconductor is discontinuing the attached list of parts. end-of-life buys will be accepted until and including the date of August 14th, 2002.

Reasons: The Texas Instruments die used to make these parts has been discontinued by the vendor. Die can no longer be purchased, and ASI's die inventory is very limited.

part numbers: SM27C256 and SMJ27C256.

DSCC SMD numbers: 5962-86063xxxx

**Benefits:**

- A life-time buy 2500 SMD 5962-8606301XA used on the Miniatured Airborne Globlal Positioning System Receiver I/O Processor Circuit Card Assembly (CCA).
- Cost avoidance of $10M.

# Reliability Data



**LIFE CYCLE COSTING AND ITS OPTIMIZATION**

by

Thomas T. Spachos

# Reliability & Maintainability Data

**Title:** LIFE CYCLE COST MODELING AND OPTIMIZATION

**Abstract:** The purpose of this study is to provide the concepts of life cycle costing, the methodology that has been well formed after almost 30 years of practical engineering experience, and the models that have been used in industry up to now. There are also provided some additional metrics, which are the result of research by the author at the University of Arizona. Life cycle cost is a major parameter in the design and development of a new system or product; And as a management technique is employed to aid in the decision-making process. Life cycle cost analyses are appropriate in all phases of the unit life cycle; I.E., Product planning and conceptual design, preliminary system design, detailed design and development, production, operations, and logistic support.

**Benefits:** Document was useful in providing LCS modeling technique for the OHIO Class Guided Missile Nuclear Submarine (SSGN) program.

# Metrology Data

NAVAIR 17-20AE-244

AE-244

TECHNICAL MANUAL

INSTRUMENT CALIBRATION PROCEDURE

# ALKALINE BATTERY CHARGERS/ANALYZERS

UTAH RESEARCH AND DEVELOPMENT CO.
NBC-1 AND NBC-1A (P/N 371AS201-1)

# Metrology Data

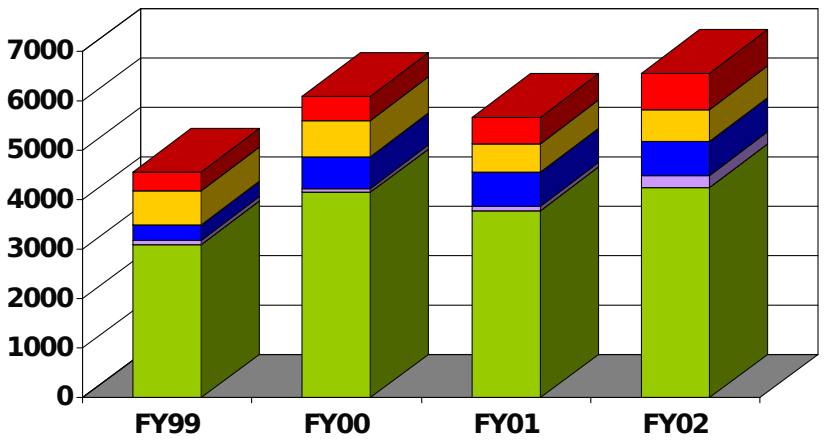
**Title:** Alkaline battery, chargers/analyzers

**Abstract:** This procedure describes the combined “I" level maintenance check/calibration procedure for the Utah Research and Development Co. nbc-1 and nbc-1a (p/n 371as201-1) alkaline battery chargers/analyzers.

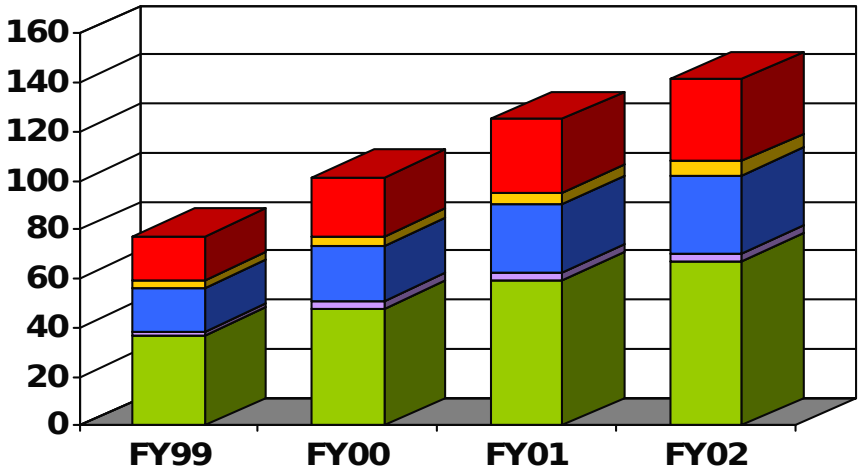
**Benefit:** The Naval Air Station at Pt Mugu used this Calibration Procedure to resolve maintenance procedure conflicts in other documents. Cost avoidance was $93,000.

# Documents

## Total Submitted




## Thousands Total Downloaded




| FAILURE | ENG | DMSMS | R&M | METR |
|---|---|---|---|---|

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# Products and Services

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM GIDEP

- Help Desk
- Training
- World Wide Web
- Urgent Data Request
- Push mail
- Batch Match

# Help Desk

- In-coming calls
  - Computer  assistance
  - Answer questions
  - Participant address changes
  - Database access through the web
  - Password resets
- Material requests
  - Data, Documents
  - On-line manuals, Information Brochure
  - Forms and Posters
  - Up-coming events (announcements

**Hours of Operation**
6:30a - 5:30p PT
***Know your Participant Code!***

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# Training

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- On-site training
  - Call the Help Desk to Schedule
- GROW (GIDEP Reps. Outreach Workshop)
- Clinic
- Workshop

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# World Wide Web

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM GIDEP

## Three Page Sets

NOTICE: This Official U.S. Government site is subject to monitoring.
Quick Highlights
GO
Some GIDEP Participants:
Lockheed Martin Corp.
Boeing Co.
Raytheon Co.
General Dynamics Corp.
Northrop Grumman Corp.
United Technologies Corp.
TRW Inc.
Litton Industries Inc.
Science Applications Intl.
... to name only a few!
... people who care about making their proc
the BEST that it can be!
How To Join
What is GIDEP?
GIDEP (Government-Industry Data Exchange Program)
between government and industry participants seeking t
expenditures of res s by sharing technical informat
research, design, development, production and operatio
cycle of system acilities and equipment.
What does GIDEP have to offer?
Since GID 's inception, participants have reported ov
preventi of unplanned expenditures. That means witho
could h potentially realized additional expenses of ov
some the success stories!
REGISTER NOW!
GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (GIDEP)
SEARCH SITE MAP CONTACT US
Home | Products & Services | Data | Events | Hot Sites | Management | About Us
WARNING! This "Official Business" site is for GIDEP Members only.
Visitors to this US Government site are subject to monitoring.
Official Business
This site contains JavaScript and other feautures which require
(at minimum) Netscape 3.0 or Internet Explorer 4.0
DAYS HOURS MINS SECS
34 17 08 26
until the
2000 Workshop
& Information Sharing
Conference
Frequently Visited Pages
JavaScript (Netscape 3 & 4, MSIE 4 compatible)
NEWS items
Workshop Banquet Speaker - Mr. Mike McCulley, Chief Operating
Officer of United Space Alliance and former NASA Astronaut
(Mission: STS-34 during which deployed the Galileo spacecraft for its journey
to Jupiter.) See 2000 Workshop
What's New
Latest weekly Push Mail
important GIDEP dat
May 1-5, 2000 - GIDEP W SHOP,
Kissimmee, FL
Complete Calendar of ents
SURVEY
"Data" Types
Failure Experience
DMSMS
Product Information
Engineering
Metrology
R & M
UDRs
Utilization
"Product" Highlights
WWW Database
Enter NOW
Metrology CD
Newsletter
Special "Services"
GIDEP Forum
Batch Processing
Push Mail
MEMBERSHIP AVAILABLE TO
NOW Featured!
GIDEP Forum
No password requ d for public discussions. Start a discussion.
GIDEP participants f professional assistance or merely another point
Read "Help" for a c plete description of the forum and it's capabilitie
eliminate the pas d prompt, bookmark this page as members.gid
Success Sto s
Now FY 99 sto are available! Just some of the really great stories he
reported in th ear's utilization reports.
GIDEP
A cooperative activity between Government and Industry
SPONSORED BY
US Army - US Navy - US Air Force
NASA - Federal Aviation Administration - Department of Energy
Canadian Department of National Defence - Defense Logistics Agency
Home | Pro & Services | Data | Events | Hot Sites | Management | About Us

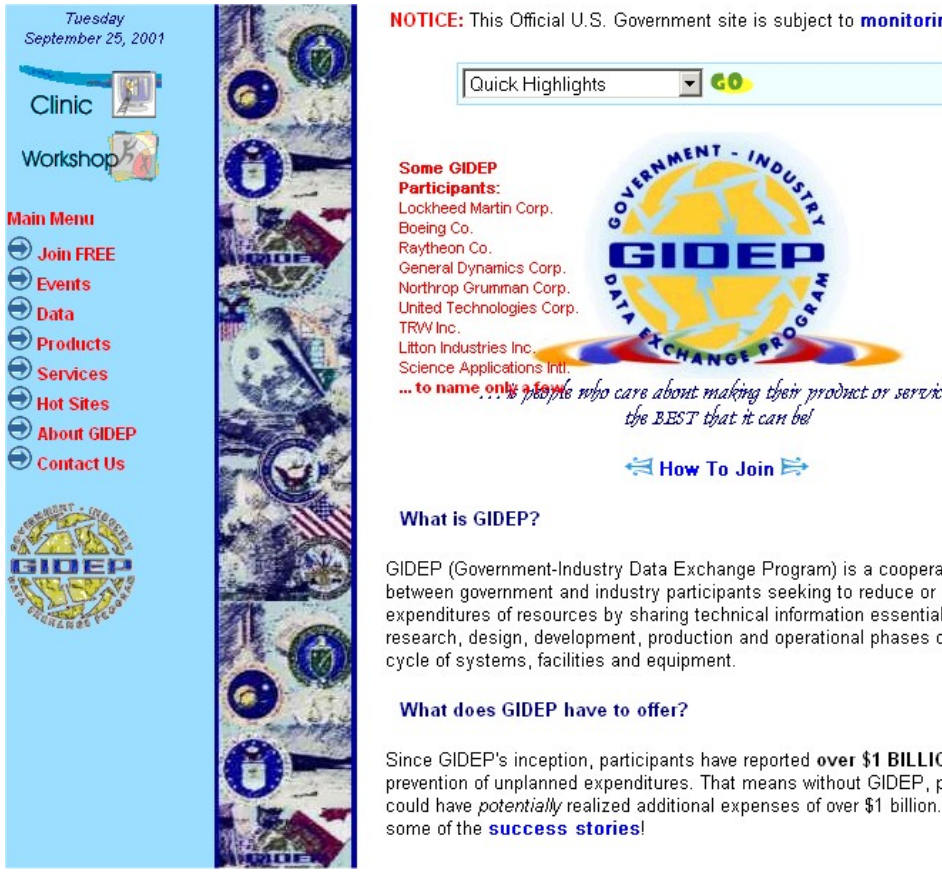
Government-Industry Data Exchange Program
NOTICE: You ust be a registered GIDEP participant to a ss this site. If you are not a registered parti nt exit now!
This U.S. Gov ment System is subject to monitori
Search Database
Roster On-line
Utilization (PURS)
Official Business
Change Password
LOGOUT

**Public**

**Members**

**Database**

# GIDEP Public Page


Tuesday
September 25, 2001
Clinic
Workshop
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Quick Highlights
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TRW Inc.
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Science Applications Intl.
... to name only a few!
GOVERNMENT - INDUSTRY
GIDEP
DATA EXCHANGE PROGRAM
... people who care about making their product or service the BEST that it can be!
How To Join
What is GIDEP?
GIDEP (Government-Industry Data Exchange Program) is a cooperative activity between government and industry participants seeking to reduce or eliminate expenditures of resources by sharing technical information essential during research, design, development, production and operational phases of the life cycle of systems, facilities and equipment.
What does GIDEP have to offer?
Since GIDEP's inception, participants have reported over $1 BILLION in prevention of unplanned expenditures. That means without GIDEP, participants could have potentially realized additional expenses of over $1 billion. Read just some of the success stories!

**http://www.gidep.org**

- General Information
- How to Join
- "Teaser"
  - Metrology
  - DMSMS
  - UDR Data

# GIDEP Members Page

**http://members.gidep.org**

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Official Business
Register NOW! GIDEP Workshop May 7-10, 2001
Frequently Visited Pages
JavaScript! (Netscape 3 & 4, MSIE 4 compatible)
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Failure Experience
DMSMS
Product Information
Engineering
Metrology
R & M
UDRs
Utilization
"Product" Highlights
WWW Database
Enter NOW
Metrology DVD
Newsletter
Special "Services"
GIDEP Forum
Batch Processing
Push Mail
MEMBERSHIP AVAILABLE TO
NEWS items
Latest weekly Push Mail
As of Feb. 2 - Single Sign-On
What's New
important GIDEP dates
38th GIDEP Workshop - May 7-10, 2001
Management Meeting - May 11, 2001
See calendar
Management Meeting - August 21-23, 2001
See calendar
2001 GIDEP Clinic - November 6-8, 2001
Complete Calendar of events
SURVEY
NOW Featured!
Single Password Sign-On
As of Feb. 2ND the Single Password Sign-On eliminates the generic sign-on.
2000 GIDEP Clinic Summary
If you missed it, here's what happened. Slides and photos.
FY00 Utilization Reporters
2000 Workshop Wrap-Up
Award winners and many more photos. The presentations are also viewable.
GIDEP Forum
No password required for public discussions. Start a discussion. Ask other GIDEP participants for professional assistance or merely another point of view. Read "Help" for a complete description of the forum and it's capabilities. (To eliminate the password prompt, bookmark this page as members.gidep.org)
Success Stories
Just some of the really great stories reported in past utilization reports.

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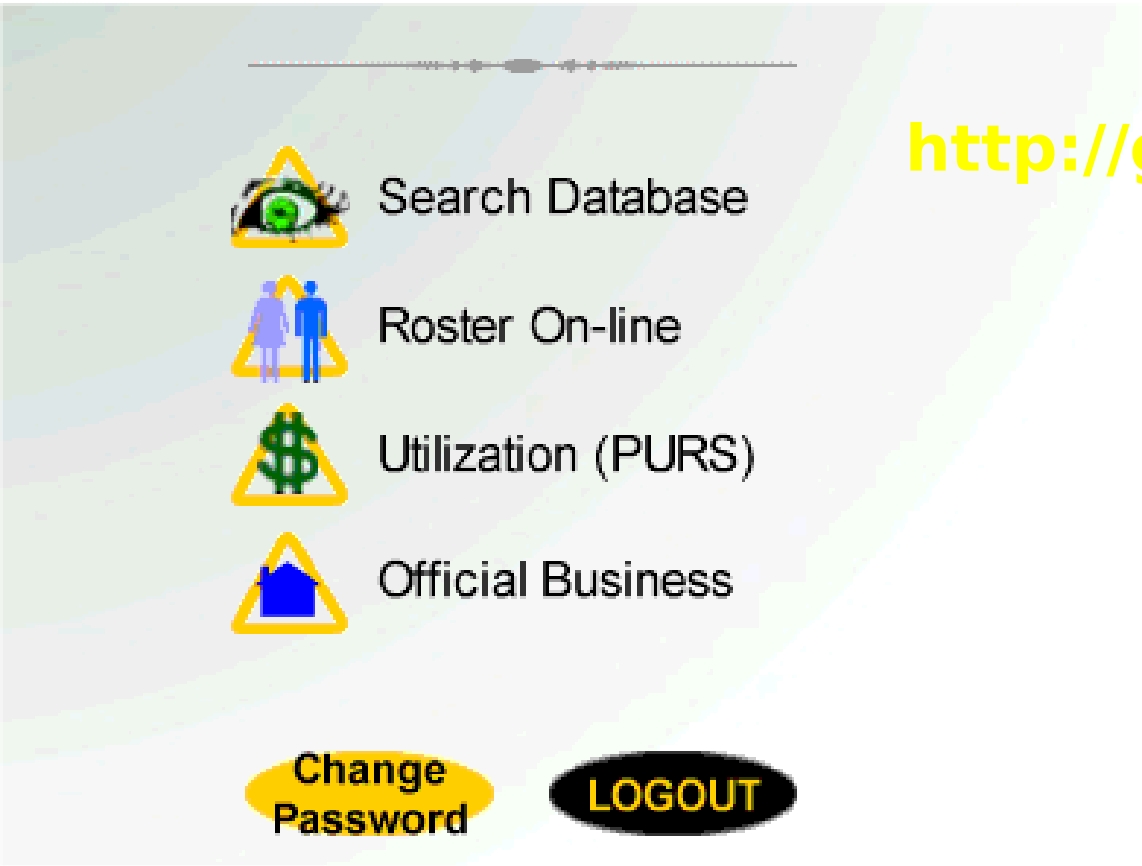
**http://members.gidep.org**

- Everything except DB
- Documentation
- Organizational news
- Events
- New Features
- Products/Services
- Links
- Site Search

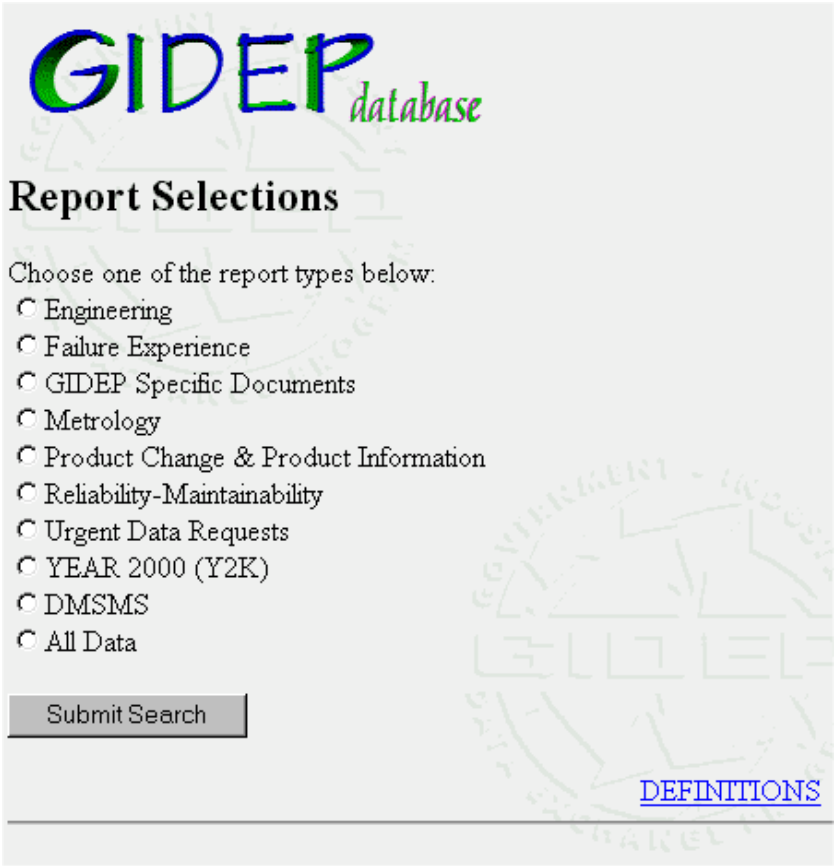
# GIDEP Database




http://gidep-data.gidep.org

Data Search
On-Line Roster
Utilization
Change Password
Official Business
Logout

# Data Search

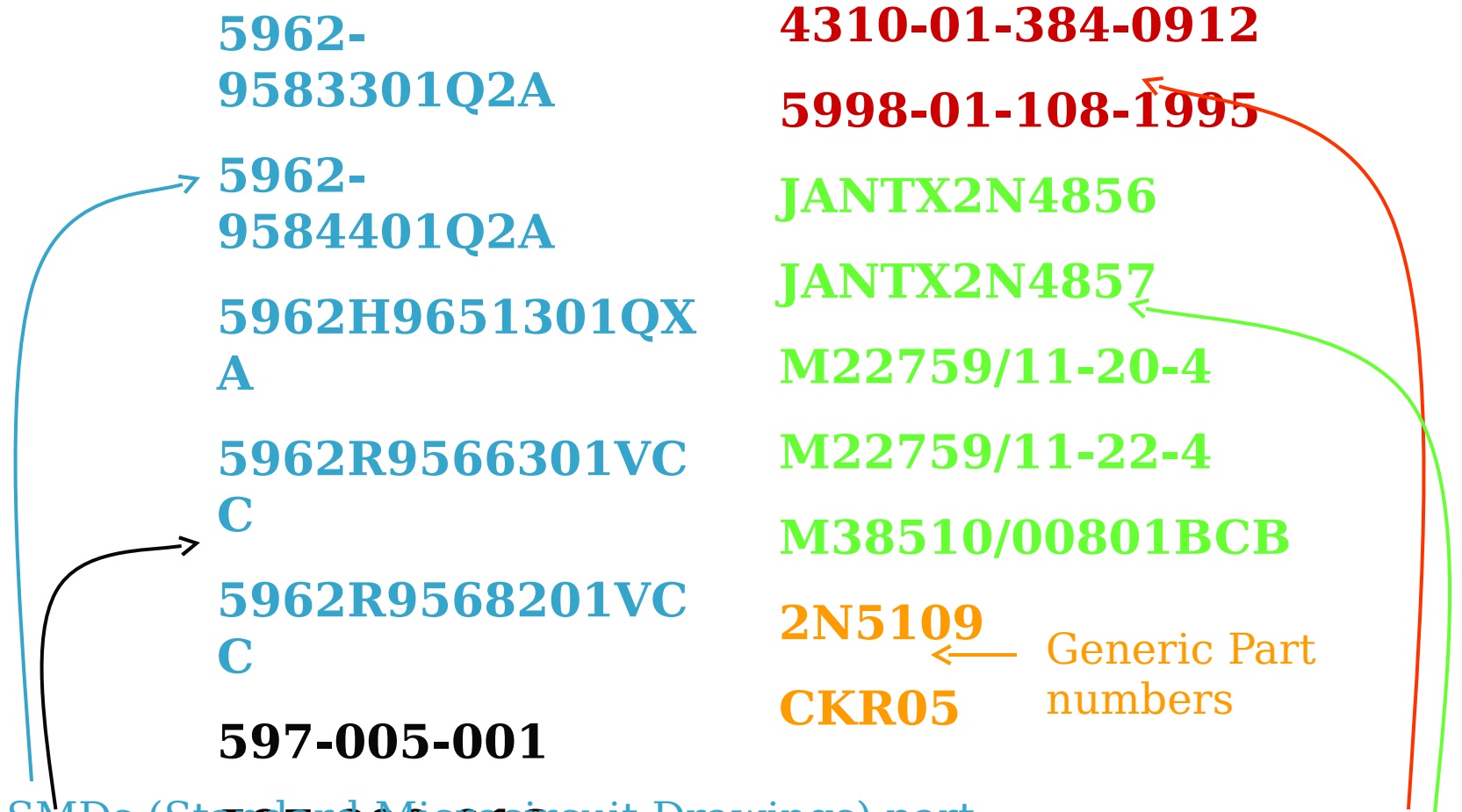



Series of screens to help you select the data you want.

# Batch Match

- Using customer provided P/N lists or bill of materials and Matching to P/Ns in the GIDEP database using a Batch process
- Primarily looking for DMSMS or Failure part information
- Navy programs using Batch Matching during FY 02/03:
  - F/A-18
  - AEGIS
  - AN/BSY-2
  - Trident (excess of 250,000 parts)

# Batch Input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597-804-016
CCR75CG151JP
4310-01-384-0912
5998-01-108-1995
JANTX2N4856
JANTX2N4857
M22759/11-20-4
M22759/11-22-4
M38510/00801BCB
2N5109
CKR05
Generic Part numbers
SMDs (Standard Microcircuit Drawings) part numbers.
SCDs (Specification Control Drawings)
NSNs (National Stock Numb
Mil part numbe
The R & H designations represent Radiation

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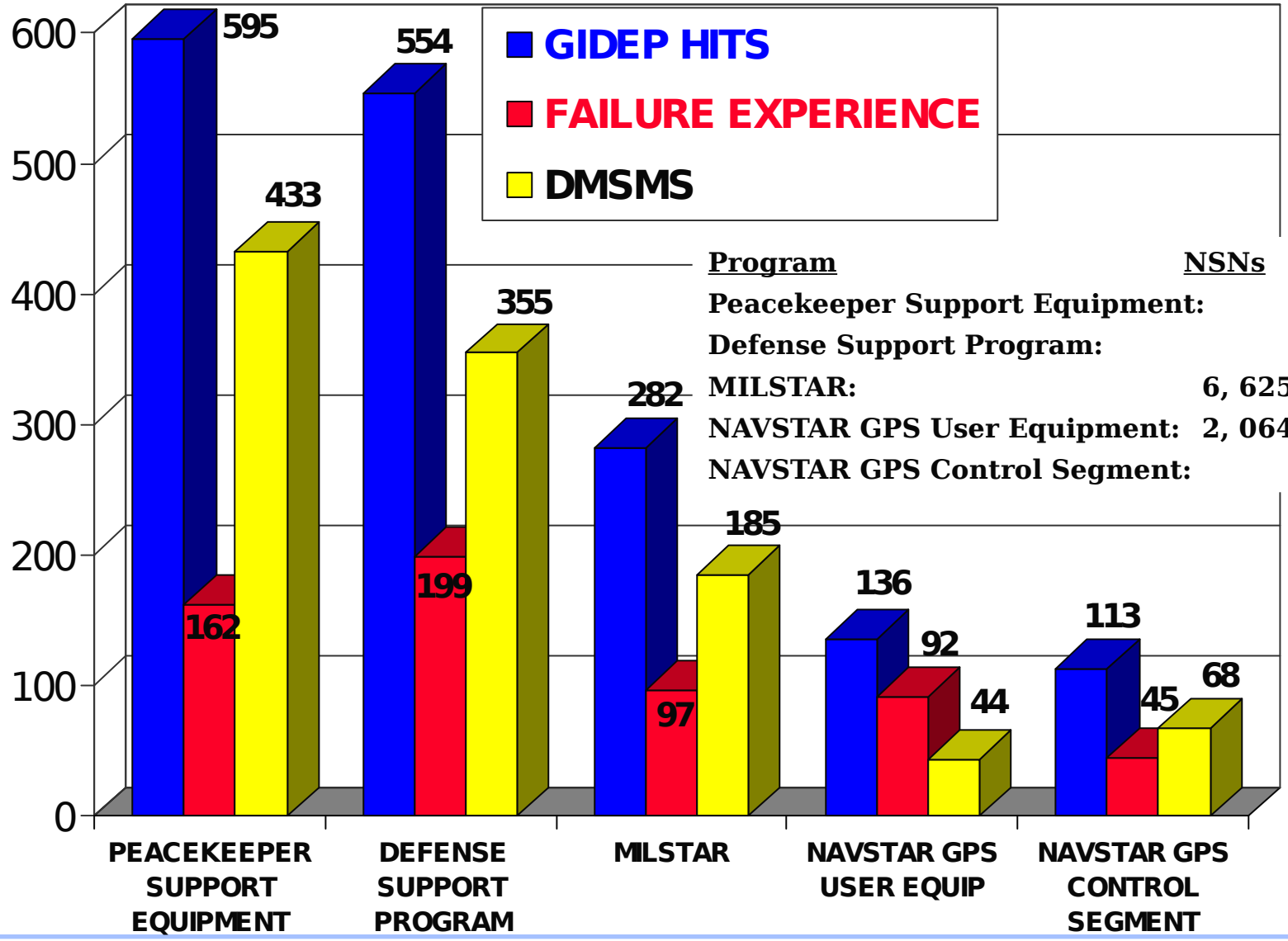
# Sample Query for Air Force Programs

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM GIDEP




| Program | NSNs |
|---|---|
| Peacekeeper Support Equipment: | 17, 907 |
| Defense Support Program: | 10, 322 |
| MILSTAR: | 6, 625 |
| NAVSTAR GPS User Equipment: | 2, 064 |
| NAVSTAR GPS Control Segment: | 1, 875 |

# Urgent Data Request (UDRs)

- **An Urgent Data Request:**
  - **Is the easiest way to interrogate the entire GIDEP network of representatives and users**
  - **Requests information not available through normal resources**
  - **Is currently being e-mailed to participants upon being committed to the database**

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# Urgent Data Request

GIDEP GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM

## URGENT DATA REQUEST

*Please Type All Information - See Instructions On Reverse*

1. REQUESTOR (*Complete items 1 thru 13*)

E-SYSTEMS INC.
P.O. BOX 6056
GREENVILLE, TX 75403-6056

GIDEP REP: MACK YAGER
CBN 180 (903) 457-5122
FAX (903) 408-8793

2. DATE (*Year, Month, Day*)
1996 MARCH 7

3. UDR NO.
AD2-U-96-01

4. SUBJECT CATEGORY
FASTENER, METRIC

5. TYPE OF DATA NEEDED (*Check as required*)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | TEST | | FAILURE RATE | | FAILURE MODE | | METHODOLOGY |
| | DESIGN | | FAILURE EXPERIENCE | | SPECIFICATION | | MAINTENANCE |
| | METROLOGY | X | OTHER (*Specify*) | SOURCE OF SUPPLY | | | |

6. COMPONENT / PART / MATERIAL / TEST EQUIPMENT / PROCESS DESCRIPTION

E-SYSTEMS GREENVILLE DIVISION HAS A NEED FOR ALTERNATE SOURCE OF SUPPLY FOR AEROSPACE STRUCTURAL QUALITY, METRIC FASTENERS. TWO SERIES EXAMPLES OUT OF A NUMBER OF TYPES AND STYLES ARE NA0038 SCREW, FLUSH HEAD, AND NA0027 NUT, SELF-LOCKING, PLATE.

| 7. MANUFACTURER | 8. MANUFACTURER PART NUMBER | 9. IND/GOVT STD NO. |
|---|---|---|
| NA | NA | NA |

# Benefits (UDRs)

- **Urgent Data Request**
  - service provided to participants
  - generally used to locate discontinued or hard to find parts
- **FY 02 – issued 283 UDRs**

| Qty | Activity |
|---|---|
| 39 | NAVICP |
| 30 | Honeywell |
| 16 | TACOM |
| 15 | Warner Robins |
| 12 | ITT |
| 11 | L-3 Comm |

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# Push Mail

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM GIDEP

- Email service
- Overview of information
- UDRs emailed upon database entry
- Weekly document index on all major data types, abstract
- Weekly parts lists (represents a complete listing of all part identifiers committed into the database)

# GIDEP Special Projects

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# Special Projects

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM GIDEP

- Batch Match
- Teaming Group Database
- DoD Material Subgroup
- Shared Data Warehouse
- PEMs Database

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# Batch Match

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM GIDEP

- Enhance batch service
- Provide user interface through the web
- Web accessible batch routine
- Load own parts
- Customized report formats
- Document linkage

# Teaming Group Database

- To share DMSMS information and solutions for weapon programs for all services
- Database at NUWC Keyport to house discontinued parts data, DMSMS case information, solutions and cost avoidance
- Database updated as programs resolve obsolescence cases, solutions identified
- Transitioning Teaming Database to GIDEP
- Currently under beta test
- Ensuring all prior teaming members allowed access to GIDEP

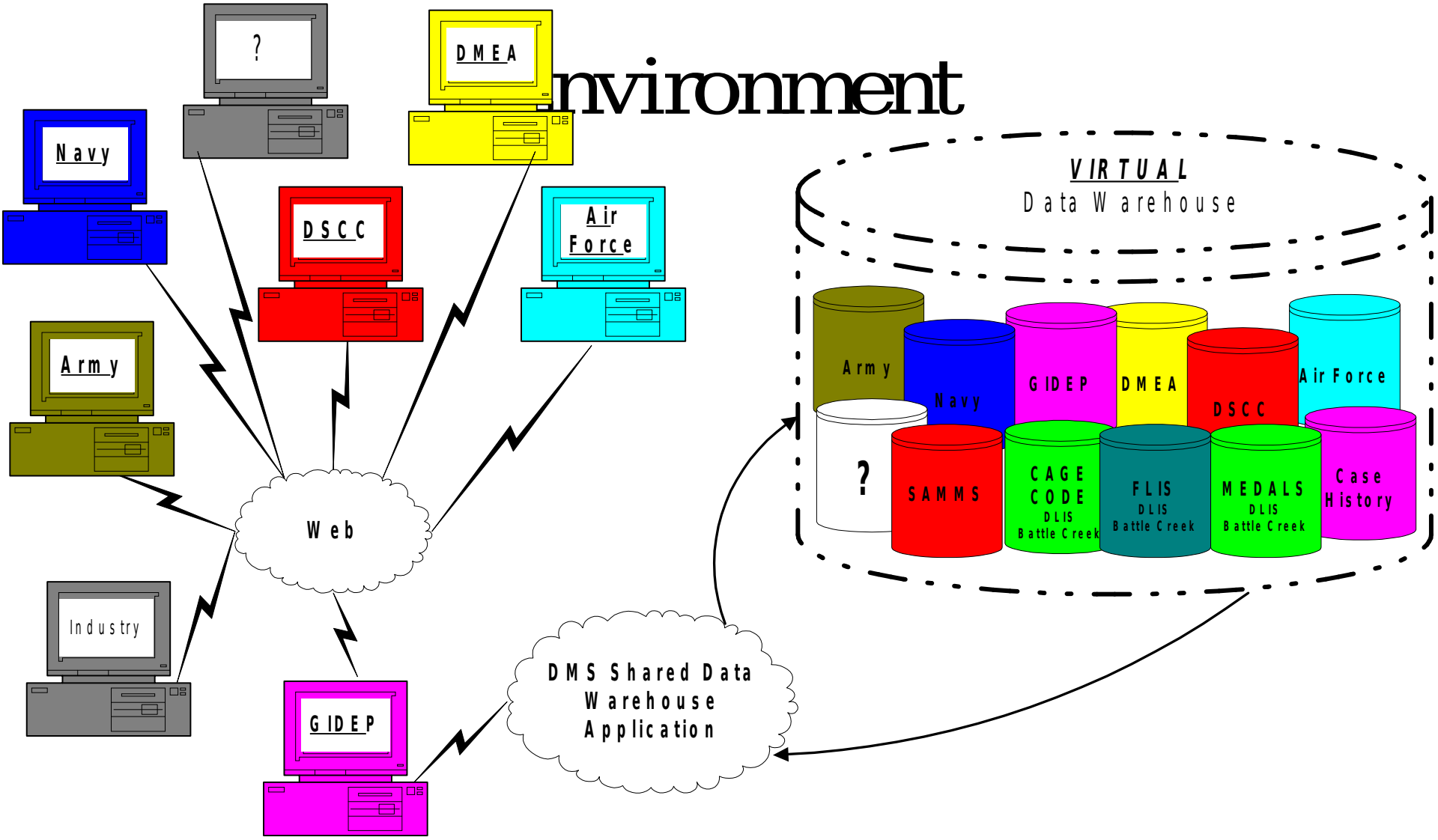
# DoD Material Subgroup

- A group formed to review and coordinate obsolescence issues with chemicals/materials
- Currently headed by Col. Alan Lee of Army HQ AMC
- Several chemicals identified as test cases
- GIDEP to house group's activities and information
- Established list server, public and members only web pages for meetings, attendees, agenda, minutes, presentation, news, related reports (document listings), etc

# Shared Data Warehouse

- Initiated by OSD
- Web enabled database application that provides connectivity
- DSCC DMS case management tool
- Part query tool
  - Access parts related information
  - View DSCC DMS case status

# Shared Data Warehouse



# PEMs Database

- Provide PEO-TM designated users access to PEMs database to prevent duplicate testing and share test data
- Serve as a tool to manage qualification costs and predict reliability of PEMs
- Data to be sanitized to eventually allow entire GIDEP community access
- All data fields developed, pick lists determined
- GIDEP develop Excel data input file, in final phase
- Army to test input file, populate database
- GIDEP to develop a web interface